

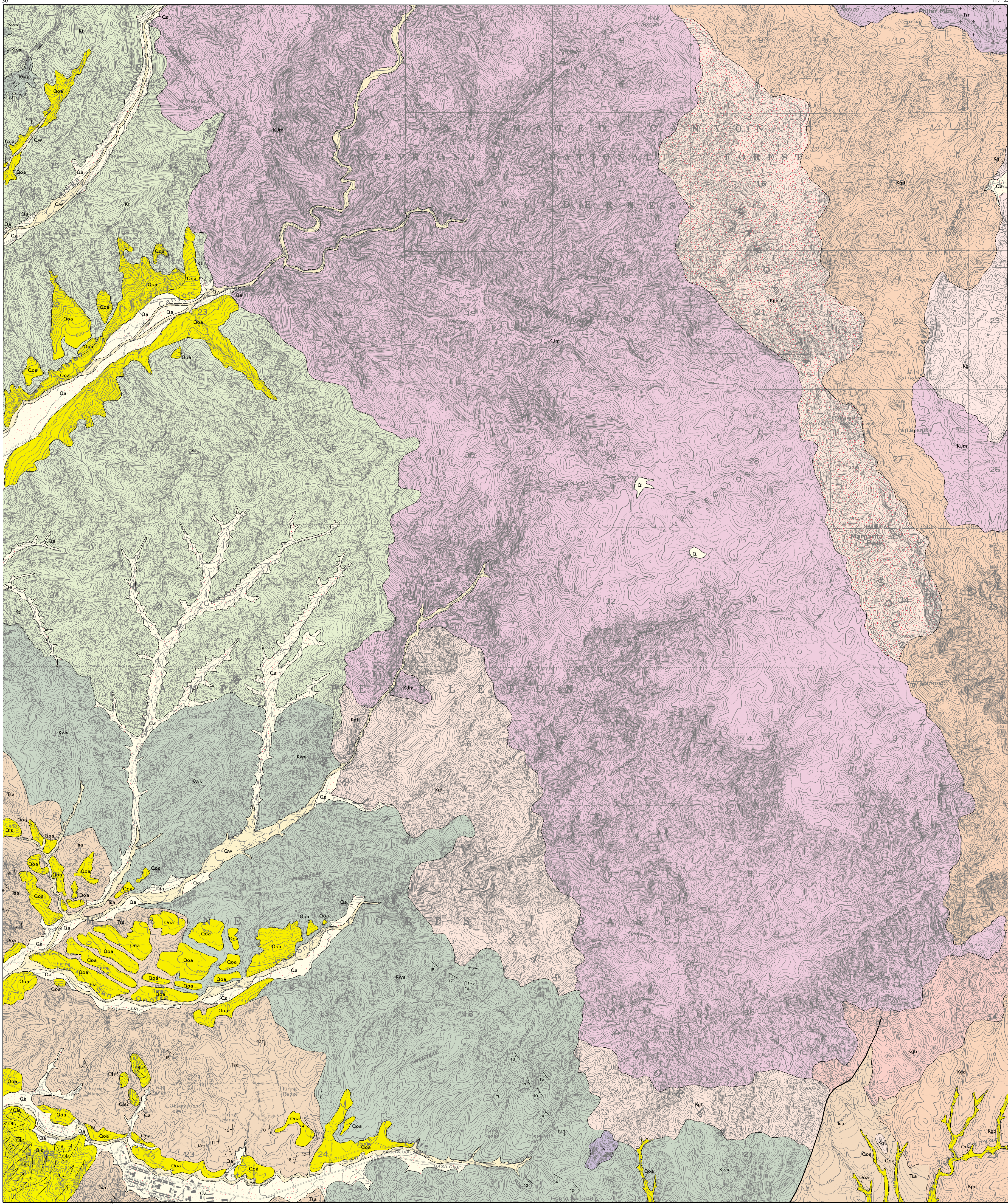
GEOLOGIC MAP OF THE
MARGARITA PEAK 7.5' QUADRANGLE
SAN DIEGO COUNTY, CALIFORNIA:
A DIGITAL DATABASE

VERSION 1.0

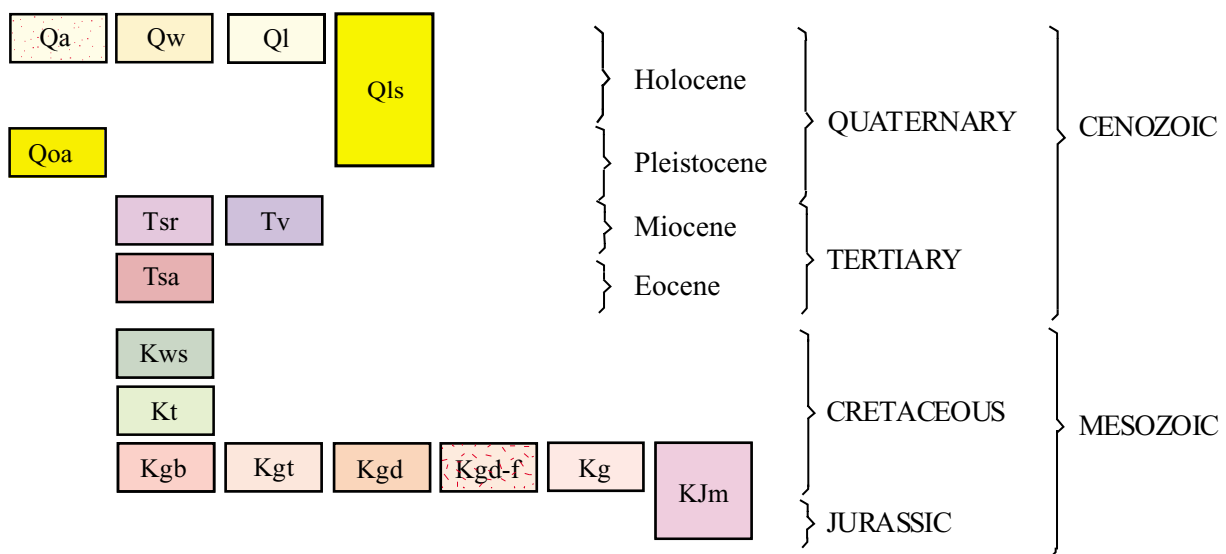
By
Siang S. Tan¹

Digital Database
by
Michael J. Watson² and Sybil Jorgensen²
2001

1. California Division of Mines and Geology, Los Angeles, CA
2. U. S. Geological Survey, Riverside, CA



CORRELATION OF MAP UNITS



MAP SYMBOLS

Contact between map units; generally approximately located.
Strike and dip of inclined sedimentary beds.
Landslide (Qls); arrow(s) indicate principal direction of movement, outline includes headscarp of landslide.

DESCRIPTION OF MAP UNITS

MODERN SURFICIAL DEPOSITS - Sediment that has been recently transported and deposited in channels and washes, on surfaces of alluvial fans and alluvial plains, and on hillslopes. Soil-profile development is nonexistent. Includes:

- Qw Active wash/stream deposits (late Holocene) - Along major drainage courses; unconsolidated gravelly sand with silt.
- Ql Active lake/lacustrine deposits (late Holocene) - Unconsolidated sandy silt with clay and gravel.
- Qa Active alluvial flood plain deposits (late Holocene) - Unconsolidated to locally poorly consolidated sand and gravel deposits in active alluvial flood plains.
- Qls Landslide deposits (Holocene to Pleistocene) - Landslide slump and rock fall deposits.

OLD SURFICIAL DEPOSITS - Sedimentary units that are moderately consolidated and slightly to moderately dissected. Older surficial deposits have upper surfaces that are capped by moderate to well-developed pedogenic soils. Includes:

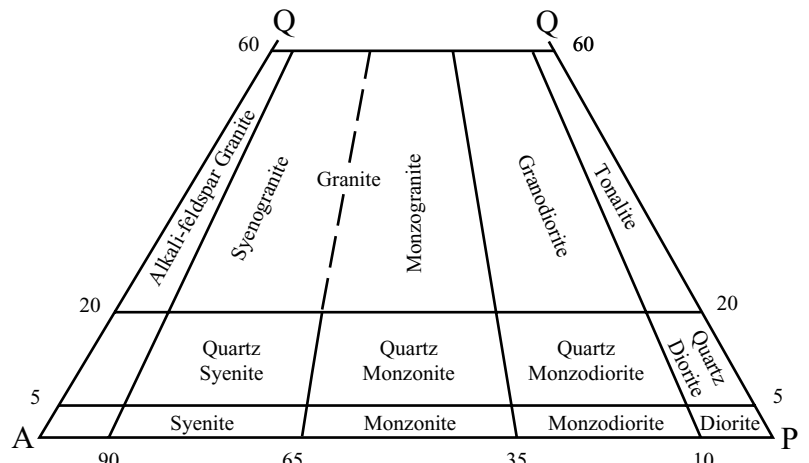
- Qoa Older alluvial flood plain deposits (Pleistocene, younger than 500,000 years) - Mostly moderately well consolidated, poorly sorted, permeable flood plain deposits; sand, silt and clay.

BEDROCK UNITS

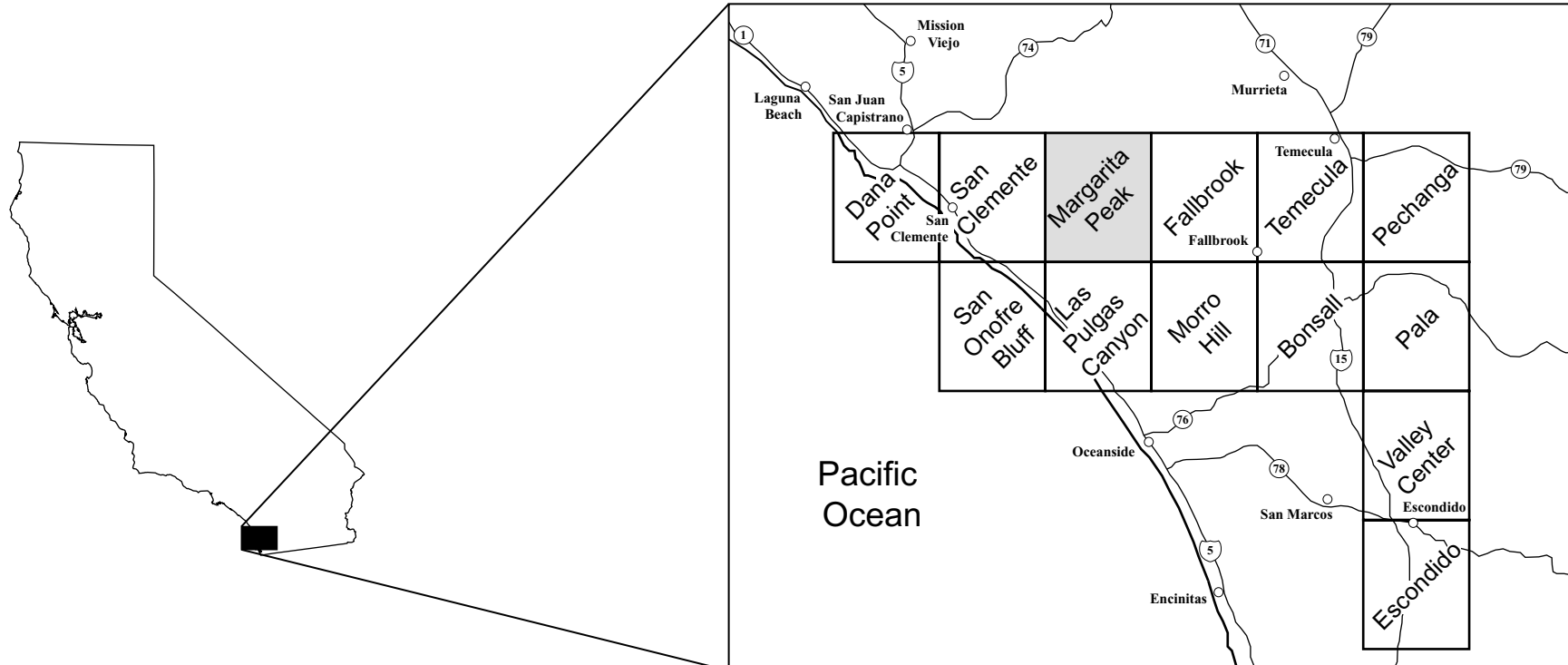
- Tsr Santa Rosa Basalt (Miocene) - Dark-gray and black, fine-grained basalt and agglomerate.
- Tv Volcanic rock undivided (Miocene) - Flows of dacitic composition.
- Tsa Santiago Formation (Eocene) - Marine sandstone with siltstone interbeds.
- Kws William Formation, Schultz Ranch Member (Cretaceous) - Marine conglomeratic sandstone with siltstone beds.
- Kt Trabuco Formation (Cretaceous) - Non-marine fanglomerate with unsorted subangular clasts.
- Kg Granite undivided (Cretaceous) - Mostly leucocratic granite; coarse to medium grained.
- Kgd Granodiorite undivided (Cretaceous) - Mostly hornblende-biotite granodiorite; coarse to medium grained.
- Kgd-f Fine-grained Granodiorite undivided (Cretaceous) - Mostly hornblende-biotite granodiorite.
- Kgt Tonalite undivided (Cretaceous) - Mostly hornblende-biotite tonalite; coarse-grained, light gray.
- Kgb Gabbro undivided (Cretaceous) - Mostly biotite-hornblende-hypersthene gabbro; coarse-grained, dark gray, massive.
- KJm Metavolcanic and metasedimentary rocks undivided (Cretaceous and Jurassic) - Low grade (greenschist facies) rocks that are in part coeval with and in part older than the Cretaceous plutonic rocks they lie in contact with.

REFERENCES

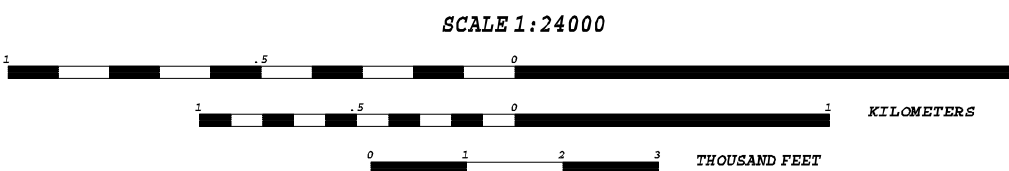
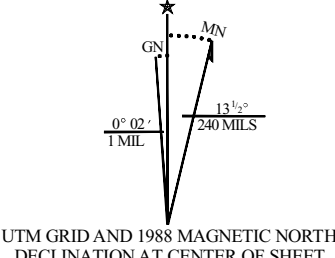
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Classification of plutonic rock types (from IUGA, 1973, and *Streckeisen, 1973).
A, alkali feldspar; P, plagioclase feldspar; Q, quartz.
*Streckeisen, A.L., 1973, Plutonic rocks—Classification and nomenclature recommended by the IUGA Subcommittee on Systematics of Igneous Rocks: Geotitles, vol. 18, pp.26-30.



Topographic base by U.S. Geological Survey
7.5' Margarita Peak Quadrangle
Polyconic projection, contour interval 20 feet,
dotted lines 10 feet.



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